

## Course Content

Course Title (English)	Digital Signal Processing
Course Title (Chinese)	數位訊號處理
Credit	3
Instructor	Prof. See-May Phoong 馮世邁 教授
Outline	A complete course on discrete-time signal processing
Goal	<p>Content:</p> <ol style="list-style-type: none"><li>1. Review of Discrete-Time Signals and Systems</li><li>2. z-transform</li><li>3. Sampling</li><li>4. Transform Analysis of Linear Time-Invariant Systems</li><li>5. Structures for Discrete-Time Systems</li><li>6. Filter Design</li><li>7. Discrete Fourier Transform (DFT)</li><li>8. Fast Four Transform (FFT)</li><li>9. Fourier Analysis of Signals Using DFT</li><li>10. Multirate Signal Processing and Filter Banks</li></ol>
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese